The Seeding of Wheat

Correctly Proportioned Fertilizers and Good Seed Are Important Factors in Increasing the Yield

By C. B. Hutchison, Assistant Professor of Agronomy, College of Agriculture, U. of Mo.

Wheat responds to an application of fertilizer more freely than any other field crop grown in Missouri. In general, it responds most striking and only good seed of some variety ly to the application of nitrogen and phosphorus, and fertilizers of this nature nearly always give good returns.

The results secured on the university experiment fields in various parts of the state show that on the average to good uplands the use of bonemeal

The Use of Good Seed. Another factor which controls the yield of the wheat crop is the seed. best suited to one's locality should be

The experiment station has been testing wheat varieties for a number of years, both at Columbia and by means of co-operative experiments throughout the state. These experi-



On this experiment field the plot on the yielded 9.1 bushels per acre. The plot on the fertilizer and yielded 18.2 bushels per acre.

or other phosphatic fertilizers with ments show that there is no one vasouri soils are lacking in available phosphates. Steam bonemeal should be used and an application of 125 to 150 pounds, made with a fertilizer

drill, as the wheat is sown. On the lands that have been worm complete fertilizer containing 3 to 4 per cent nitrogen, 8 to 10 per cent available phosphoric acid and 3 to 4 per cent potash, applied at the rate of 125 to 150 pounds to the acre, is good. Another fertilizer that will bring good returns on these thin lands is one containing around 2 per cent nitrogen, 8 to 10 per cent available phosphoric acid and 2 to 3 per cent potash.

This is a lower grade fertilizer than the first one mentioned and should be used at a little heavier rate, say from 150 to 200 pounds per acre. These fertilizers will not only increase the yield of the wheat crop, but will aid materially in getting a stand of grass where these crops follow the wheat.

wheat is advisable, since most Mis- riety of wheat that is universally adapted to all soils, nor even to the same soil for all seasons. It is evident from the results of these experiments, however, that certain varieties are very superior to others where by continued cropping the use of a averages are considered. And there is no doubt that if farmers were careful to use only pure strains of some one or another of these better varieties the average yield of the state would be greatly increased without modifying the other methods of han-

> Unfortunately, the varieties which average highest are not all available in this state and cannot always be gecured. Among the best varieties of the bearded wheats are: (1) Deitz, (2) Rudy, (3) Mediterranean, (4) Ful-(4) Beechwood, (5) Hybrid, (6) Dawson's Golden Chaff, (7) Early Ripe, (8) Poole and (9) Fultz.

fessor of Agronomy, University of Missburi.

wheat at the average November price growth of the wheat. for the last decade to meet this ex. A few years ago, in an experiment

great many farmers in the state perhaps not so important that wheat where wheat is especially adapted, to be recommended in practically all where much better yields than these cases. are obtained, but at the same time | The depth of plowing depends largethere are many farms where the yield ly upon the soil and upon the time. Or of wheat is not what it should be, deep soils land for what is best and where its growing has not been plowed deep, providing the plowing very profitable.

grow it, is not in itself a very profitso well and is of such importance as a nurse crop for grass and clover that work the ground down in good shape,

it is often grown for these reasons. There is no reason why wheat should not be made a profitable crop in practically every section of this state, and close attention to those factors controling the profitable production of the crop will aid materially in increasing its value and importance throughout the state. It is to some of these factors that the reader's atten-

tion is directed at this time. Preparation of the Seedbed. early and fairly deep. Where the

Origin of Present-Day Games.

Though we get our games of tennis from the eastern countries, most of to us from the ancient north. Ring games and games in which light objects are thrown come also from forappear to revert in origin to early exworked out their salvation.

Religion Shown by Sacrifice. In every age a test of religion has been its power to call out sacrifice. The great temples of the past could be built only by individual self-sacrifice. The direction of self-denial must be towards the noblest and most unselfish ends, putting the good of others in the place of self-indulgence.-The Christian Register.

Will Levington Comfort,

dling the wheat crop.

crop is to follow oats, rye or any oth-INCREASING WHEAT YIELD or crop removed by the middle of July, the ground should be plowed as soon as the previous crop has been average but two less than Duroc Jer-PREPARING SEEDBED SO AS TO taken off. Early plowing conserves sey litters, the numbers being about INCREASE YIELD IN MISSOURI. | the moisture by keeping a bosened seven and nine respectively. The small layer of soil on top to act as a mulch. By C. B. Hutchison, Assistant Pro- This means that there will not only be more moisture there to germinate the kernels and to start the plants off in the fall, but early plowing fol-The average yield of wheat in Mis- lowed by frequent working with the souri for the past te nyears has been disc or drag harrow will help set free about 13.7 bushels per acre. It re- plant food and conditions will be more quires approximately 13 bushels of favorable for rapid germination and

pense, together with that of taxes, conducted by the Kansas station, interest on the investment and the early-plowed land gave much better value of plant food removed from the results than that plowed late. Similar results were secured by the Okla-This evidently means that there are home experiment station. While it is who are actually growing wheat at a land be plowed as early in Missouri as loss. Of course, there are sections in other states, yet early plowing is

be done early enough for the proper It is, of course, realized by many preparation of the seedbed. An ideal tarmers that the wheat crop, as they seedbed for wheat is one which has been stirred deep, well-compacted beable one, but it fits into the rotation low and with a loose layer of soil on top. It takes considerable time to and this is another reason why the land should be plowed early.

In the rudiments of a sound education the Finnish people are unsurpassed. Practically every man and woman in the country has a working knowledge of reading, writing, and arithmetic, and every child of school age receives careful instruction in these studies. Every adult has a vote, and although 53 per cent of the inhabi-Wheat ground should be plowed tants are women there are only 17 of their sex in the Finnish diet.

Largest Black Diamond

Do you know that the largest black diamond in the world was discovered our games of bat and ball come down in Brazil in 1895? It weighed 3,078 karats, and was discovered in the marsh "de Lama," near the town of Lencoes, in the state of Bahia, by one est countries, where the spear was a of those searchers called here "garimfamiliar weapon. But all of them alike perios." The name of this lucky fellow was Sergio Borges de Carvalho, periences of the race by which they and he sold his find to an agent named Jose Bezerra de Cerquira for 190,000 francs (about \$47,500).

> An insect much resembling the June bug, and found in great quantities in the high plains about Quito, the capital of Ecuador, is toasted and eaten as a delicacy by the natives of that country. They are sold in the streets in the same manner as are chestnuts in the cities of this coun-The roasted bugs taste very much like toasted bread.

All the riding hard, shooting true One American telephone company and dying game—poor ethics of the has over 14,610,000 miles of wire in open—had not brought a crumb, not use. That would be enough to make a crumb, of the real bread of life,- about 56 single wire lines to the moon from the earth,



POLAND CHINA HOGS EXCEL

Most Numerous in United States and Particularly in Corn Belt-Good Feeders and Rustlers.

Of all breeds of bogs Poland Chinas are the most numerous, at least in the United States, and particularly so in the corn belt. Having originated in southwestern Ohio, they are well suited to the needs of corn belt farmers, and it is not surprising that Poland China hogs are to be found on almost every farm, says a writer in the Rural New Yorker. These hogs are fine of bone, neat of frame, mature early and fatten easily; yet they are not toy pigs, adopted for show, principally, but are a lusty lot, being good rustlers. good feeders and of good constitution. The illustration shows a fair specimen of the small type of Poland China, the



Poland China Boar.

kind that will weigh 200 pounds at six, seven or eight months of age. when in market condition. A sevenmonths old pig weighing 200 pounds is easily produced under usual farm conditions, and at a good profit, too, as pigs of such weights bring the highest

During the present year hogs of may weight have sold at good prices, but fat pigs weighing from 175 to 200 pounds sold for a good premium over heavier ones, the reason being that hams and sides from such pigs, being small, are more easily and quickly gured. Such a policy on the part of the packers avoided having to hold caster and (5) Lebanon; and of the high-priced meat long with a risk of smooth wheats (1) Michigan Wonder, a slump in price. With prospect of (2) Jones Red Wave, (3) Hickman, more pigs coming on farmers were juite willing to sell light-weight hogs it the good prices they commanded, and the Poland China and other small types of hogs peculiar to the corn belt made such a policy possible and profitable. A fault of the Poland Chinas is their small litters. However, statistics show that Poland China litters

races of hogs are as free from disease as are the larger ones, and socalled immunity from cholera is a myth unless that immunity has been secured by the proper administration of cholera serum; the breed or type is of no importance so far as disease is concerned.

CARING FOR BRUISED WOUNDS

'njuries to Horses' Legs Are Serious and Should Be Treated So as Not to Leave Scar.

Bruised wounds do not require a great amount of attention, since they are usually protected by the skin, and germs cannot find their way in to cause much trouble. To keep down inflammation, it helps to bathe the skin with a solution made by dissolving two tablespoonfuls of lead acetate in a quart of water.

Leg wounds in horses are a rather serious matter, since they are likely to leave a blemish which will lower the value. It is important in treating them to secure a healing which will be so perfect that no one will suspect that a wound has ever been there. For such wounds one veterinarian suggests the following: Clean the wound with a wash composed of one tablespoonful of acetate of lead. one tablespoonfu! of sulphate of zinc. four tablespoonfuls of tincture of arnica, and one quart of water. This wash should be used every hour or so the first day and three or four times daily thereafter. The object is to keep the wound, while healing, lower than the surface of the skin. If it pushes up, bichloride of mercury, as much as can be put on the surface of a dime, should be placed on the sore. It is said that leg wounds thus treated will heal over, leaving no blemish

Contentment and Health.

When planning for grain crop and live stock improvements don't forget that the fruits and vegetables for the farm means more contentment and better health.

Unfit Work for Mare. Breaking ground with a big ploy or working a gang of heavy disks is hard work and a mare well alone in gestation should nover be used for

Whaling at Natal.

this purpose.

The whaler Egeland the other morn ing brought in the first humpback whale captured in Natal this season It was a good whale and very fat, On a second visit to the ocean the same whaler captured a blue whale 70 feet long, which landed in the evening. Apparently the baleen whales are early this year.—Natal Mercury.

The best luck any man can have is ever to have been born; but that selfor happens to anyone.

For Sixteen Years, Restored To Health by Lydia E. Pinkham's Vegetable

Compound.

Moretown. Vermont.-"I was troubled with pains and irregularities for sixteen years, and



was thin, weak and nervous. When I would lie down it would seem as if I was going right down out of sight into some dark hole, and the window curtains had faces that would peek out at me, and when I was

out of doors it would seem as if something was going to hap-pen. My blood was poor, my circula-tion was so bad I would be like a dead person at times. I had female weakness badly, my abdomen was sore and I had awful pains.

"I took Lydia E. Pinkham's Vegetsble Compound and used the Sanative Wash and they certainly did wonders for me. My troubles disappeared and I town. Vermont.

Another Case.

Gifford, Iowa .- "I was troubled with female weakness, also with displace ment. I had very severe and steady headache, also pain in back and was very thin and tired all the time. I com-menced taking Lydia E. Pinkham's Vegetable Compound and I am cured of these troubles. I cannot praise your medicine too highly."—Mrs. INA MILLS SLAGLE, Gifford, Iowa.

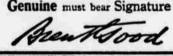
Make the Liver Do its Duty

Nine times in ten when the liver is right the stomach and bowels are right. CARTER'S LITTLE LIVER PILLS

gently but firmly compel a lazy liver to do its duty.

Cures Con-

SMALL PILL, SMALL DOSE, SMALL PRICE. Genuine must bear Signature



CHICKEN, AND AGAIN CHICKEN

Confederate Veteran Hay His Own Ideas of What Should Constitute a Perfect Menu.

"Speaking of fried chicken, hot hiscuit, and peach cobbler," said the Confederate veteran, "you may recall Gen. "Bring me fried chicken. Not one fried chicken, not two fried chickens.

Just fried chicken-unlimited fried "Corn fritters and sweet potatoes Mrs. Winslow's Soothing Syrup for Children

"Some people lay great stress on the hot biscuit casuality list, but I am willing to take two dozen risks at a sitting in case the biscuit is small. flaky, white inside like snow, hot, with plenty of firm, prime butter.

"Peach cobbler is best served in a soup bowl, and it should nearly fill the bowl. There should be always a pitcher of sauce flavored with vanilla, wine, and highly sweetened.

"The sauce never has enough wine in it. To overcome this defect pour a quantity of the sauce over the cobbler and then add a wine glass full of old

WATERY BLISTERS ON FACE

Smithville, Ind .- "Six months ago our baby girl, one year old, had a few red pimples come on her face which gradually spread causing her face to become very irritated and a fiery red color. The pimples on the child's face were at first small watery blisters, just a small blotch on the skin. She kept scratching at this until in a few days her whole cheeks were flery red color and instead of the little blisters the skin was cracked and scaly looking and seemed to itch and burn very much.

"We used a number of remedies which seemed to give relief for a short time then leave her face worse than ever. Finally we got a cake of Cuticura Soap and a box of Cuticura Ointment. I washed the child's face with very warm water and Cuticura Soap. then applied the Cuticura Ointment very lightly. After doing this about three times a day the itching and burning seemed entirely gone in two days' time. Inside of two weeks' time her face seemed well. That was eight months ago and there has been no return of the trouble." (Signed) Mrs. strangers. A. K. Wooden, Nov. 4, 1912.

Cuticura Soap and Ointment sold throughout the world. Sample of each free, with 32-p. Skin Book. Address postcard "Cuticura, Dept. L, Boston."-Adv.

In case you fail to put your best foot forward when you have a chance you may feel like using it to kick yourself

A man can usually get what he wants if he is highly recommended by a bank account.

It isn't recorded that the Lord loveth cheerful giver of advice.

Would Have Expressed Himself in Somewhat Different Manner.

There was at one time in Georgia udge who had many duties beside his legal ones to perform, but who never for a moment forgot that he "embodied the law" under any and all circumstances.

On one occasion he was called upon to act as auctioneer to dispose of come merchandise left by a dry goods merchant who had died some time be-

During the auction one of the bidders created a disturbance, and finally the exasperated auctioneer, assuming his character as judge, fined the man \$60, and sent him to jail for contempt of court. An attorney made an application to

on the grounds that there had been no contempt of court. He maintained that the judge when acting as auctioner was not a court, and therefore was not liable to contempt. The judge heard this application

remit the fine and release the prisoner.

presented with rising wrath, and assuming all the dignity which he possessed, he glared flercely down upon the diminutive attorney. "Sir," said he, in stentorian tones,

would have you know that I am judge of this place under any and all circumstances; I am judge all the time, sir, from the rising of the sun to the going down of the same! And am able to work hard every day."—Mrs.
W. F. Sawyer, River View Farm, Moreattorney, "as such," shaking a forefinger at the attorney, "as such, let me tell you. sir, that I am always and everywhere object of contempt."-National Monthly.

NOT PART OF GIRL'S DOWER

Information That Probably Did Much to Check Infatuation of Lovesick Youth.

Young Tom Toote was spending a holiday in the country, and had been invited to the beautiful home of a sweet young thing named Agnes. "What a charming place!" he said

enthusiastically to Agnes' proud paternal parent. "Does it go as far as those woods over there?" "It does," remarked the somewhat

unsympathetic P. P. P. "Ah." said Tom, still cheerily, "and to that old stone wall over there, tion.

"It does," came the gruff answer: "and it goes as far as the river on the south, and to the main road on the north." "Beautiful!" put in Tom.

"Yes," went on the old man; "but doesn't go with Aggie!" Then Tom faded peacefully from

Rocking-Chair Signs.

An observant Atchison woman says she can tell from the way a woman rocks on her front porch what condition the house behind her is in. If she sways back and forth with a floppy, comfortable motion, plumping both feet down in a relaxed sort of way. then everything about the house is absolutely clean and neat. But if she rocks in little nervous lerks, tapping her feet down at short and irregular intervals, it signifies that there are to treat four teeth-eight teethunmade beds behind her and stacks of unwashed dishes and dusty floors .-Atchison Globe

It was in a suburban town and the good minister had taken his class of woods.

Each was supplied with a basket of fruit and sandwiches, and as they sat | select."-Washington Star, down in a picturesque snot to appease their sharpened appetites, the minister asked:

"Now, boys, what is the best and most appropriate time to thank the Lord? The boys looked at each other in

silent questioning. "What does your father do when he sits down to his meals?"

One of the lads, a little red-haired chap, promptly answered: 'Cuss the cook."

Flashlights.

It takes about a week for a girl's left arm to get used to carrying an engagement ring. Hard work is the best pavement you

can lay for luck to get to your doors. About the best thing that can happen to some men is to have their wives carry the family pocketbook. It's tough to be broke right after vacation, but it's tougher still to be broke just before one.

And here we are at the eighteenth hole, as the golfers say.-Detroit Free

Cuckoo Reformation. A remarkable case of reformation on the part of two old cuckoos is reported by Col. A. M. Blake from his estate at Welwyn, Herts, England.

The colonel states that he found two young cuckoos with the parent birds in faithful attendance. As is generally known, the regular habit of the cuckoo is to lay its eggs in the nests of other birds, leaving the rearing of their offepring to perfect This is said to be the third succes

up their young at Welwyn. Refuge in Confusion. "I suppose that by this time your

constituents fully understand your po-"No," replied Senator Sorghum, "but I think I have explained it at sufficient length to prevent them from

making any further attempts to comprehend it."-Washington Star. Everything Relative. Madge-This summer seems to be

much cooler than last. Marjorie-You must remember, Most of a man's illusions come out dear, that you're not wearing so many

Probably Judge, With a Little Thought, A GENERAL TONIC - TAKE GROVE

The Old Standard Grove's Tasteless chill Tonk is Equally Valuable as a General Tonic because it Acts on the Liver. Drives Out Malaria, Enriches the Blood and Builds up the Whole System. For Grown People and Children.

You know what you are taking when you take Grove's Tasteless chill Tonic as the formula is printed on every label showing that it contains the well known tonic properties of QUININE and IRON. It is as strong as the strongest bitter tonic and is in Tast less Form. It has no equal for Malaria, Chills and Fever. Weakness, general debility and loss of appetite. Gives life and vicor to Nursing Mothers and Pale, Sickly Children. Removes Biliousness without purging. Relieves nervous depression and low spirits. Arouses the liver to action and purifies the blood. A True Tonic and sure app tizer. A Complete Strengthener. No family should be without it. Guaranteed by your Druggist. We m an it. 50c.



Watch Your Colts

Conghs. Colds and Distemper, and at the first symptoms of any hallment, give simil doses of that wonderful remedy, how the SPOHN'S DISTEMPER COMPOUND

to cents and \$1 a bottle; \$5 and \$10 the dozen of any druggist, harness dealer, or delivered by SPOHN MEDICAL CO., the mists and Bucteriologists, Gosben, Ind., U. S. A.

and center.

in center:

been to college."

plar Magazine.

slender"

ernoon. Tris Speaker knocked out a

long fly that fell between right field

Danny Moeller, the speedy right

As soon as Moeller had caught the

"That guy don't even know his own

fly a disgusted Boston fan remarked:

language. What he should have said

is: T've got it!' I suppose he's some

gink that's trying to make out he's

went to college, but graduated.-Pop-

Putting It Mildly.

Tom-Did you say your friend is

Tab-Well, she returned a silhou-

ette gown because she couldn't make

Foley Kidney Pills Succeed

because they are a good honest med-

icine that cannot help but heal kid-

nevand bladder ailments and urinary

irregularities, if they are once taken

into the system. Try them now

for positive and permanent help.

THERAPION Used in French

THERAPION

200 Good Farms

Park Region Land Co., Inc.

a shadow in it.-Judge.

As a matter of fact Moeller not only

fielder of the Nationals, went after it, crying out for the guidance of Milan

"I have it! I have it!"

Ignorant of His Own Language. It is better to profit by your own The Boston Americans were playing the Nationals in the Bean City one aft-

Perhaps ignorance and bliss are a better pair to draw to than folly and

His Reason. "Don't take notice of the cook,

"I have to. She's just given it."

Difference of Opinion. "I like to see a young fellow settling "I would rather see him settling up."

His Trade. 'Our apothecary is a poet."

"Why shouldn't he be? Isn't poetry

drug in the market?" Sure Sign. Knicker-Baby seems left-handed. Mrs. Knicker-Heavens, she must

be engaged to somebody already. Bankrupt. Everything she had went at auc

"No; bridge,"-Judge. The Reason. "Why are some people so afraid of the opinion of posterity?"

"Because posterity belongs to the

"Public sale?"

class of people always after us. Not on His List. "Do you owe your downfall to Demon rum?" asked the prison vi.1:o:.. "I never heard of the brand," re-

plied the convict.-Buffalo Expr =: Tact. "Of course these pies are not like "Not a bit, dear. Poor mother nev-

er could make pies fit to eat." The Dentist-Let me see! I'll have

the ones your mother used to make.

eighteen teeth-Mr. Pildo-Hold on! Four teeth eight teeth, eighteen teeth! What do you think I am-a comb?-London

Answers. Policies.

"Have you outlined your policy to your constituents?" "No." replied Senator Sorghum: "I boys on a little picnic out in the am still looking over the policies my constituents have outlined to me, trying to decide on which I had better

"Yes, young man, I know you! You've been in love with my daughter ever since you discovered that she was an helress."

MAKING EYES! Well of granulated lide

LADIES AND GENTLEMEN wishing to join beliable Post Caro Cub, wire contrally invited to address GERRAN BELLTY CO., 6700 EASTON, ST, LOUIS COLONIZING fertile Arkaness lands in thful country, well drained, near good, 175, Some excellent investments. Acts. led. Southern Land Co., Helena. Ark.

"But, my dear sir, you wouldn't have 2,000 ACRES good farming land in him ne Ans. me marry a poor girl, would you it hashtssky, owner, at home him an Anich its les Why, I can't even support myself "-W. N. U., ST. LOUIS, NO. 37-1913.



